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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/915,658	07/25/2001	Gundu M. Sabde	500163.04	9163	
27076	7590 10/14/2004		EXAMINER		
20112-1	WHITNEY LLP	CHEN, KIN CHAN			
INTELLECTUAL PROPERTY DEPARTMENT SUITE 3400 1420 FIFTH AVENUE SEATTLE, WA 98101			ART UNIT	PAPER NUMBER	
			1765		
			DATE MAILED: 10/14/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		09/915,658	SABDE ET AL.				
		Examiner	Art Unit				
		Kin-Chan Chen	1765				
The MAILIN Period for Reply	G DATE of this communicat	ion appears on the cover she	eet with the correspondence a	adress			
THE MAILING DA  - Extensions of time may after SIX (6) MONTHS  - If the period for reply s;  - If NO period for reply si  - Failure to reply within the side of th	TE OF THIS COMMUNICA' be available under the provisions of 37 from the mailing date of this communicated his communicated above is less than thirty (30) das specified above, the maximum statutor is set or extended period for reply will.	CFR 1.136(a). In no event, however, ation. ys, a reply within the statutory minimum ry period will apply and will expire SIX (i	may a reply be timely filed  n of thirty (30) days will be considered time 6) MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133).	ely. communication.			
Status							
2a)☐ This action i 3)☐ Since this a							
Disposition of Claim	s						
4a) Of the al 5) ☐ Claim(s) 6) ☑ Claim(s) <u>53</u> 7) ☐ Claim(s)	Claim(s) 53,54 and 62-69 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) 53,54 and 62-69 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or election requirement.						
Application Papers		n					
10) The drawing Applicant ma Replacement	y not request that any objection drawing sheet(s) including the	☐ accepted or b)☐ objecton to the drawing(s) be held in a correction is required if the dr	ed to by the Examiner. abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 C rached Office Action or form F				
Priority under 35 U.S	s.C. § 119						
12) Acknowledg a) All b) 1. Certif 2. Certif 3. Copie	ment is made of a claim for Some * c) None of: ied copies of the priority does of the copies of the priority does of the certified copies of the cation from the International	foreign priority under 35 U.s cuments have been receive cuments have been receive he priority documents have Bureau (PCT Rule 17.2(a)) or a list of the certified copie	d. d in Application No been received in this Nationa ).	ıl Stage			
	on's Patent Drawing Review (PTO- re Statement(s) (PTO-1449 or PTO	-948) Pap	erview Summary (PTO-413) per No(s)/Mail Date lice of Informal Patent Application (P <sup>*</sup> er:	ГО-152)			

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#### **DETAILED ACTION**

### Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 53, 54, 62, 63, 66, and 67 are rejected under 35 U.S.C. 102(e) as being anticipated by Chopra (US 6,276,996).

Chopra teaches a lubricating planarizing solution. A non-abrasive solution without abrasive particles may include CARBOPOL ® as a thickener to achieve desired viscosity in a range from 10 cp to 20 cp, which reads on applicant's limitation of claims 53, 62, 63, see col. 3, lines 11-16. Ammonium hydroxide (so-called water and ammonia in the instant claims 54, 66, 67) may also be used in the solution, see col. 3, lines 55-57; col. 4, lines 1-3.

The examiner would like to remind applicant that a commonly owned reference is only disqualified when MPEP706.02(I)(3) A, B, and C are all met. (A) evidence is filed (to show commonly owned), (B) the reference is qualified as a prior art under 102(e), and (C) rejection under 35 USC § 103.

The burden of establishing that subject matter is disqualified as prior art is placed on applicants once examiners have established a prima facie case of obviousness based on the subject matter.

The fact that the reference and the application have the same assignee is **not**, by itself, sufficient evidence. There must be a statement that the common ownership was "at the time the invention was made."

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 64, 65, 68, and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chopra (US 6,276,996).

Chopra teaches a lubricating planarizing solution. A non-abrasive solution without abrasive particles may include CARBOPOL ® as a thickener to achieve desired viscosity in a range from 10 cp to 20 cp. Ammonium hydroxide (so-called water and ammonia in the instant claims) may also be used in the solution, see col. 3, lines 55-57; col. 4, lines 1-3.

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The claimed invention differs from Chopra by specifying the concentration of the lubricant-additive in the lubricating planarizing solution. However, the concentration and composition of each ingredient in the solution is commonly determined by routine experiment. The process of conducting routine optimizations so as to produce an expected result is obvious to one of ordinary skill in the art. In the absence of showing criticality or new, unexpected results, it is the examiner's position that a person having ordinary skill in the art at the time of the claimed invention would have found it obvious to perform routine experiments by using various concentrations in order to reduce the friction between the fixed abrasive article and the semiconductor wafer surface during the planarization and provide the satisfactory planarization.

Changes in compositions, temperature, concentrations, or other process conditions of a process do not impart patentability unless the recited ranges are critical (i.e., they produce a new and unexpected result that differs in kind and not merely in degree from the result of the prior art). *In re Woodruff*, 16USPQ2d 1934,1936 (Fed. Cir.1990); *In re Hoeschele*, 406 F.2d 1403, 160 USPQ 809; *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). MPEP 2144.05 IIA.

## Response to Arguments

5. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kin-Chan Chen whose telephone number is (571) 272-1461. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

October 5, 2004

Kin-Chan Chen Primary Examiner Art Unit 1765

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